

PATENT

#1 1/2 / Pre AA  
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Bhru

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The first of the two steps of the proof will be to show that the set of all  $\mathbf{u} \in \mathbb{R}^n$  such that  $\mathbf{u}^T \mathbf{A} \mathbf{u} = 0$  is a linear subspace of  $\mathbb{R}^n$ . This is done by showing that if  $\mathbf{u}$  and  $\mathbf{v}$  are in the set, then  $\mathbf{u} + \mathbf{v}$  and  $c\mathbf{u}$  are also in the set for any scalar  $c$ .

--The industrial robot of claim 1, wherein said second path is disposed so as to be freely connectable to said manipulator.--

AA